## CHEMICAL AGE

INDEX FOR 1969

## Another first for Stone & Webster

During 1969 Stone & Webster completed the first European plant incorporating their USC (Ultra Selective Conversion) cracking process for ethylene for Petrochim in Antwerp. Three other plants incorporating the USC process are now in operation and others are in the design or construction stages.



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CA-50th anniversary number

ECMRA conference report

ICPE preview

Overseas Project Survey

CA-200: a listing of world chemical companies

UK Chemical Projects Survey

EPCA conference report

West German Projects Survey

31 January

28 March

28 March and 4 April

18 April

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25 July

26 September

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Additional information is available from the CA Data Service on the Overseas Projects Survey, UK Projects Survey and the West German Projects Survey. Enquiries to Barbara Obstoj, Information Officer, CA, Bouverie House, 154 Fleet Street, London EC4.

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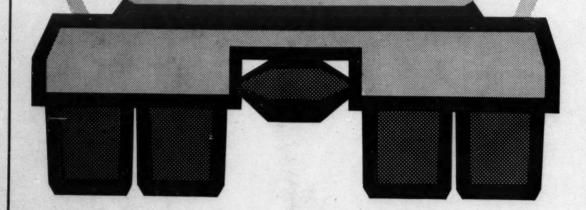
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Ammonia olant aporoval UCB, See Union Chinque Belge, UCB, FTAL, New company set up for PA production Capital increase. Phthalic anhydride and phthalates clant UCEA. Pitaning department formed by SNI and E RAP UDDEBIOLM LTD, Nitric acid plant for SA UDDEBIOLM LTD, Nitric acid plant for SA UDE NIMAS RIO TINTO, Financial Get 50 per cent stake in IGA UGH.OR, Acquire remainder of Altalor UGHOR, Acquire remainder of Altalor UGHE KUHLMANN, New company to replace Plantigal	5/9-D15  1/8-p22  7/11-D 4  A  17/1-p20  24/10-D13  17/1-p20  34/1-p31  33/10-p 4  12/12-D14  34/1-p 8	To buy UC New Zealand Belgium HQ move Launch Polyox Financial US PE price increase Financial Financial Belgian capital increase Explosion at Texas butadiene plant PE film price increase Explosion at Texas complex Plasticisers for cigarette filters, UK Compressor lubricants UNION CHIMEQUE BELGE, Financial Approval for Fraysse takeover Exchanges with AKU Pharmacoutical research with Cassella Investment plans Italy, financial Financial	12/9 - p 8 19/9 - p 12 19/9 - p 13 26/9 - p 8 26/9 - p 2 31/10 - p 4 31/10 - p 4 31/10 - p 10 31/10 - p 10 31/12 - p 27 3/1 - p 10 4/2 - p 6 21/3 - p 8 28/3 - p 12 4/4 - p 11 13/6 - p 8 27/6 - p 4	VAAL REEFS. H., SO, expansion, S. Africa VACCINE. New plant for Sarbach Licence for SKF subsid, Recherche et Ind, The rapeutiques, Merieux talks with British Co. Licence for RIT Parke-Davis, for measles, Germany Dow agreement with Statens Bakteriologiska VALVES, CONTROL, Crane/Guide agree- ment VANDEGRIFT, ROBERT A. Profile VAN DER GRINTEN NV. Financial VAN DER PLOEG, Agreement with APV VANLIN. Borregard production	21/2 - p25 1/8 - p15 1/8 - p11 1/8 - p21 10/10 - p20 19/12 - p 9 11/4 - p20 15/8 - p10 14/2 - p 6 29/8 - p18 10/1 - p 4
Ammonia olant approval UCB. See Union Chimque Beige, UCBFTAL. New company set up for PA production Capital increase, Phthalic anhydride and phthalates plant UCEA. Planning department formed by SNI and ERAP UDDEHOLM LTD, Nitric acid plant for SAI London office Chiorinators for Laporte UCE NINAS RIO TINTO, Financial Get 30 per cent stake in IQA UGILOR, Acquire remainder of Aitulor UGINE KUHLMANN, New company to replace Plastigal	5/9-D15  1/8-p22  7/11-D 4  24/10-D13  17/1-p20  24/1-p24  31/1-p31  31/10-p 4  12/12-D14  31/1-p 8  17/1-p 9  21/2-p 8	To buy UC New Zealand Belgium HQ move Lunnch Polyox Financial US PE price increase Financial Belgian capital increase Explosion at Texas butadiene plant PE film price increase Explosion at Texas complex Plasticisers for cigarette filters, UK Compressor lubricants UNION CHIMEQUE BELGE. Financial Approval for Frayses takeover Exchanges with AKU Pharmaceutical research with Cassella Investment plans Italy, financial Financial Plant Dutch PA project Acquire Belgian drug co	12/9 - p 8 19/9 - p 12 19/9 - p 13 26/9 - p 8 26/9 - p 20 3/10 - p 2 31/10 - p 4 31/10 - p 10 31/10 - p 10	VAAL REEFS. H., SO, expansion, S. Africa VACCINE. New plant for Sarbach Licence for SKF subsid, Recherche et Ind, The rapeutiques, Merieux talks with British Co. Licence for RIT Parke-Davis, for measles, Germany Dow agreement with Statens Bakteriologisks VALVES, CONTROL, Crane/Guide agree- ment VANDEGRIFT, ROBERT A. Profile VAN DER GRINTEN NV. Financial VAN DER PLOSG, Agreement with APV VANILIN. Borregaard production Monsanto, USA, capacity expansion VANOY, Link with Hydronyl broken	21/2 - p25 18/4 - p15 1/8 - p11 1/8 - p21 10/10 - p20 19/12 - p 9 11/4 - p20 15/8 - p10 14/2 - p 6 29/8 - p18 10/1 - p 4 14/3 - p25 25/4 - p25
Ammonia olant approval UCB. See Union Chimque Beige, UCBFTAL. New company set up for PA production Capital increase. Phthalic anhydride and phthalates plant UCEA. Planning department formed by SNI and ERAP UDDEHOLM LTD, Nitric acid plant for SAI London office Chiorinators for Laporte UCE NINAS RIO TINTO, Financial Get 50 per cent stake in IQA UGILOR. Acquire remainder of Aitalor UCINE KUHLMANN, New company to replace Plastigni Financial Joint PSG fertiliser operation, and will form SGE	5/9-D15  1/8-D22  7/11-D 4  24/10-D13  17/1-D20  24/1-D24  3/1-D31  3/10-D4  12/12-D14  3/1-D9  21/1-D9  21/2-D8  28/2-D6	To buy UC New Zealand Belgium HQ move Lunnch Polyox Financial US PE price increase Financial Belgian capital increase Explosion at Texas butadiene plant PE film price increase Explosion at Texas complex Plasticisers for cigarette filters, UK Compressor lubricants UNION CHIMEQUE BELGE, Financial Approval for Frayses takeover Exchanges with AKU Pharmaceutical research with Cassella lives timent plans Italy, financial Financial Plant Dutch PA project Acquire Belgian drug co Financial Thoglycollic acid unit	12/9 - p 8 19/9 - p 12 19/9 - p 13 26/9 - p 8 26/9 - p 20 3/10 - p 2 31/10 - p 4 31/10 - p 10 31	VAAL REEFS. H., SO, expansion, S. Africa VACCINE, New plant for Sarbach Licence for SKF subsid, Recherche et Ind. The rappeutiques, Merieux talks with British Co. Licence for RIT Parke-Davis, for measles, Germany Dow agreement with Statens Bakteriologisks VALVES, CONTROL, Crane/Guide agreement VANDEGRIFT, ROBERT A. Profile VAN DER GRINTEN NV. Financial VAN DER PLOEG, Agreement with APV VANILIN. Borregaard production Monsanto, USA, capacity expansion VANROY, Link with Hydronyl broken Additional component works Recent orders	21/2 - p25 18/4 - p15 1/8 - p11 1/8 - p21 10/10 - p20 19/12 - p 9 11/4 - p20 15/8 - p10 14/2 - p 6 29/8 - p18 10/1 - p 4 14/3 - p25 25/4 - p25 18/7 - p20 10/10 - p21
Ammonia olant aporoval UCB. See Union Chimque Beige, UCBFTAL. New company set up for PA production Capital increase. Phthalic anhydride and phthalates plant UCEA. Planning department formed by SNI and E RAP UDDEHOLM LTD, Nitric acid plant for SAI London office Chiorinators for Laporte UCE NINAS RIO TINTO. Financial Get 50 per cent stake in IQA UGILOR. Acquire remainder of Aitulor UGINE KUHLMANN. New company to replace Flantigui Financial Joint PSG fertiliser operation, and will form SGE Financial Deny chemicals sell out	5/9-D15  1/8-D22  7/11-D 4  24/10-D13  17/1-D20  24/1-D24  31/1-D31  31/10-D4  12/12-D14  31/1-D8  21/2-D8  28/2-D8  28/2-D6  2/5-D2  13/6-D11	To buy UC New Zealand Belgium HQ move Launch Polyox Financial US PE price increase Financial Financial Belgian capital increase Explosion at Texas butadiene plant PE film price increase Explosion at Texas complex Plasticisers for cigaretts filters, UK Compressor lubricants UNION CHIMQUE RELGE, Financial Approval for Fraysse takeover Exchanges with AKU Pharmacutical research with Cassella Investment plans Italy, financial Financial Flant Dutch PA project Acquire Belgian drug co Financial Thioglycollic acid unit UNION CHIM, ELF, AQUITAINE. Set up by	12/9 - p 8 19/9 - p 12 19/9 - p 13 26/9 - p 20 3/10 - p 2 31/10 - p 4 31/10 - p 10	VAAL REEFS. H., SO, expansion, S. Africa VACCINE, New plant for Sarbach Licence for SKF subsid, Recherche et Ind, The rapputiques, Mericux talks with British Co. Licence for RIT Parke-Davis, for measles, Germany Dow agreement with Statens Bakteriologiska VALVES, CONTROL, Crane/Guide agreement VANDEGRIFT, ROBERT A. Profile VAN DER GRINTEN NV. Financial VAN DER PLOEG, Agreement with APV VANLIN. Borregaard production Monsanto, USA, capacity expansion VANROY, Link with Hydronyl broken Additional component works Recent orders Agents for Raschig tower packings VAN RYMENANT SA, Wimpey link	21/2 - p25 18/4 - p15 1/8 - p11 1/8 - p21 10/10 - p20 19/12 - p 9 11/4 - p20 15/8 - p10 14/2 - p 6 29/8 - p18 10/1 - p 4 14/3 - p25 25/4 - p25
Ammonia olant aporoval UGB, See Union Chimique Beige, UGB, FTAL, New company set up for PA production Capital increase. Phthalic anhydride and phthalists olant UCEA. Planning department formed by SNI and ERAP UCEA. Planning department formed by SNI and ERAP London office Chiorinators for Laporte UCE NINAS RIO TINTO. Financial Get 50 per cent stake in IGA UGILOR. Acquire remainder of Aitaior UGINE KUHLMANN. New company to replace Plantigui Financial Joint PSG fertiliser operation, and will form SGE	5/9-D15  1/8-D22  7/11-D 4  24/10-D13  17/1-D20  24/1-D24  31/1-D3  31/10-D4  12/12-D14  31/1-D9  24/2-D8  28/2-D6  2/5-D2  13/6-D11  1/8-D24	To buy UC New Zealand Belgium HQ move Launch Polyox Financial US PE price increase Financial Financial Belgian capital increase Explosion at Texas butadiene plant PE film price increase Explosion at Texas complex Plasticisors for cigaretts filters, UK Compressor lubricants UNION CHIMQUE RELGE, Financial Approval for Fraysse takeover Exchanges with AKU Pharmacutical research with Cassella Investment plans Italy, financial Financial Financial Plant Dutch PA project Acquire Belgian drug co Financial Thioglycollic acid unit UNION CHIM, ELF, AQUITAINE. Set up by Total-Chimie styrene, polystyrene and PE project,	12/9 - p 8 19/9 - p 12 19/9 - p 13 26/9 - p 20 3/10 - p 2 31/10 - p 4 31/10 - p 10	VAAL REEFS. H.SO, expansion, S. Africa VACCINE. New plant for Sarbach Licence for SKF subsid, Recherche et Ind, The rapeutiques. Merieut talke with British Co. Licence for RIT Parke-Davis, for measles, Germany Dow agreement with Statens Bakteriologisks VALVES, CONTROL, Crane/Guide agreement VANDERIFT, ROBERT A. Profile VAN DER GRINTEN NV. Financial VAN DER PLOEG, Agreement with APV VANILIN. BOTTEGBATY production Monsanto, USA, capacity expansion VANROY, Link with Hydronyl broken Additional component works Recent orders Agents for Raschig tower packings VAN RYMENANT SA. Wimpey link VAN SCHUPPEN. Sell division to Philips-	21/2 - p25  18/4 - p15 1/8 - p11 1/8 - p21 10/10 - p20  19/12 - p 9 11/4 - p20 15/8 - p10 14/2 - p 6 29/8 - p18 10/1 - p 4 14/3 - p25 25/4 - p25 18/7 - p20 10/10 - p21 31/10 - p20 17/1 - p 8
Ammonia olant aporoval UGB, See Union Chimique Beige, UGB, FTAL, New company set up for PA production Capital increase. Phthalic anhydride and phthalates olant UCEA. Planning department formed by SNI and ERAP UDBESIOLM LTD, Nitric acid plant for London office Chiorinators for Laporte UCE NINAS RIO TINTO. Financial Get 50 per cent stake in IQA UGILOR. Acquire remainder of Altalor UGINE KUHLMANN. New company to replace Plantigal Financial Joint PSG fertiliser operation, and will form SGE Financial Deny chemicals sell out Maleic anhydride expansion Financial Talks with ERAP and R-P	5/9-D15  1/8-D22  7/11-D 4  24/10-D13  17/1-D20  24/1-D24  31/1-D3  31/10-D4  12/12-D14  31/1-D8  17/1-D9  24/2-D8  28/2-D6  2/5-D2  13/6-D11  1/8-D24  8/8-D 2  3/10-D 9	To buy UC New Zealand Belgium HQ move Launch Polyox Financial US PE price increase Financial Financial Belgian capital increase Explosion at Texas butadiene plant PE film price increase Explosion at Texas complex Plasticisers for cigarette filters, UK Compressor lubricants UNION CHIMQUE RELGE, Financial Approval for Fraysse takeover Exchanges with AKU Pharmacutical research with Cassella Investment plans Italy, financial Financial Financial Plant Dutch PA project Acquire Belgian drug co Financial Thioglycollic acid unit UNION CHIM, ELF, AQUITAINE, Set up by Total-Chimie styrene, polystyrene and PE project, France Financial	12/9 - p 8 19/9 - p 12 19/9 - p 13 26/9 - p 20 3/10 - p 2 31/10 - p 4 31/10 - p 10 31/10 - p 27 3/1 - p 10 4/2 - p 6 21/3 - p 7 21/3	VAAL REEFS. H.SO, expansion, S. Africa VACCINE. New plant for Sarbach Licence for SKF subsid, Recherche et Ind, The rapeu tiques, Merieut talke with British Co. Licence for RIT Parke-Davis, for measies, Germany Dow agreement with Statens Bakteriologisks VALVES, CONTROL, Crane/Guide agreement VANDER, CONTROL, Crane/Guide agreement VANDER, CONTROL, Crane/Guide agreement VANDER GRINTEN NV. Financial VAN DER GRINTEN NV. Financial VAN DER PLOEG, Agreement with APV VANILIN. BOTTEGBATY production Monsanto, USA, capacity expansion VANROY, Link with Hydronyl broken Additional component works Recent orders Agents for Raschig tower packings VAN RYMENANT SA. Wimpey link VAN SCHUPPEN. Sell division to Philips- Duphar VANNSHES, Italian market	21/2 - p 25 18/4 - p 15 1/8 - p 11 1/8 - p 21 10/10 - p 20 15/8 - p 10 14/2 - p 6 29/8 - p 18 10/1 - p 4 14/3 - p 25 25/4 - p 25 18/7 - p 20 10/1 - p 20 17/1 - p 8 29/8 - p 2 29/8 - p 2 3/10 - p 18
Ammonia olant aporoval UCB, See Union Chinque Beige, UCB, FTAL. New company set up for PA production Capital increase. Phthalic anhydride and phthalists olant UCEA. Planning department formed by SNI and ERAP UDDEADLM LTD, Nitric acid plant for SAI London office Chlorinators for Laporte UEE NINAS RIO TINTO. Financial Get 30 per cent stake in IQA UGILOR. Acquire remainder of Aitaior UGILOR. Acquire remainder of Aitaior UGILOR. Acquire remainder UGINE KUHLMANN. New company to replace Plantigal Financial Joint PSG fertiliser operation, and will form SGE Planacial Deny chemicals sell out Maleic anhydride expansion Financial Talks with ERAP and R-P UHDE, Friedrich GmbH. Contract for Rupphosphort plant	5/9-D15  1/8-D22  7/11-D 4  24/10-D13  17/1-D20  24/1-D24  31/1-D3  31/10-D4  12/12-D14  31/1-D9  24/2-D8  28/2-D6  2/5-D2  13/6-D11  1/8-D24  8/8-D2  3/10-D9  10/1-D21	To buy UC New Zealand Belgium HQ move Lunnch Polyox Financial US PE price increase Financial Belgian capital increase Explosion at Texas butadiene plant PE film price increase Explosion at Texas complex Plasticisers for cigarette filters, UK Compressor lubricants UNION CHIMEQUE BELGE, Financial Approval for Frayses takeover Exchanges with AKU Pharmacoutical research with Casselia Investment plans Italy, financial Financial Plant Dutch PA Droject Acquire Belgian drug co Financial Thioglycollic acid unit UNION CHIM, ELF AQUITAINE. Set up by Total-Chimie styrene, polystyrene and PE project, France Financial UNION ESPANOLA DE EXPLOSIVOS, Mex	12/9 - p 8 19/9 - p 12 19/9 - p 13 26/9 - p 8 26/9 - p 20 3/10 - p 2 31/10 - p 4 31/10 - p 16 31/10 - p 10 31	VAAL REEFS. H.SO, expansion, S. Africa VACCINE. New plant for Sarbach Licence for SKF subsid, Recherche et Ind, The rapeutiques. Merieut talke with British Co. Licence for RIT Parke-Davis, for measles, Germany Dow agreement with Statens Bakteriologiska VALVES, CONTROL, Crane/Guide agreement VANDER, CONTROL, Crane/Guide agreement VANDER GRINTEN NV. Financial VAN DER GRINTEN NV. Financial VAN DER PLOEG, Agreement with APV VANILIN. Borregaard production Monsanto, USA, capacity expansion VANROY, Link with Hydronyl broken Additional component works Recent orders Agents for Raschig tower packings VAN RYMENANT SA. Wimpey link VAN SCHUPPEN. Sell division to Philips- Duphar VANNSHES, Italian market VAUGHAN. THOMAS R. Profile VEB, Polyurethanes complex for ENSA	21/2 - p25  18/4 - p15 1/8 - p11 1/8 - p21 10/10 - p20 19/12 - p 9 11/4 - p20 15/8 - p10 14/2 - p 6 29/8 - p18 10/10 - p21 31/10 - p20 10/10 - p21 31/10 - p20 29/8 - p 2
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US capital for Gos project	3-p21 1/4-p20 4/7-p19 1/7-p19 1/8-p24 22/8-p 8 22/8-p 9 31/10-p20 28/11-p26 28/3-p11 25/4-p24 23/5-p19 4/7-p18 8 2/3-p25 4/7-p18 8 2/3-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21 3/1-p21
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